

FIG. 1

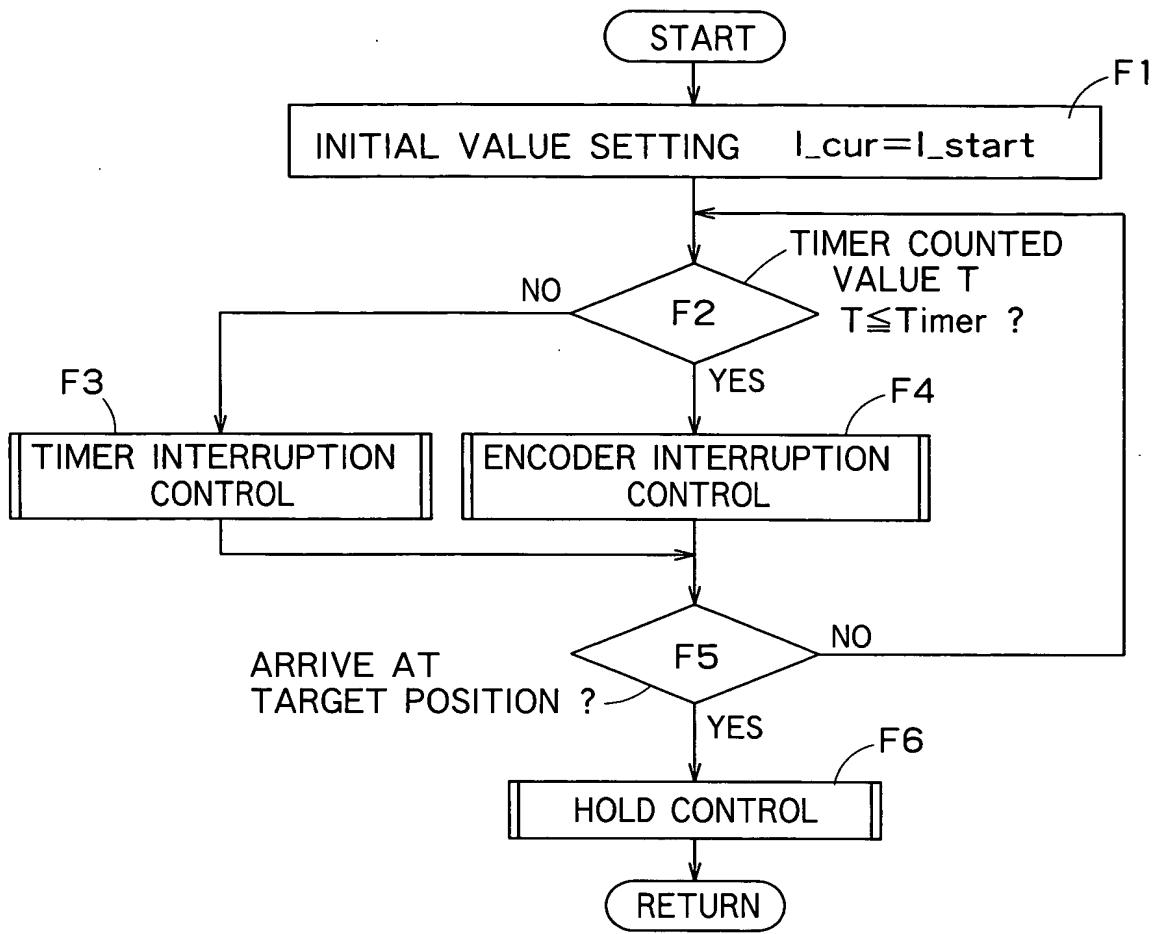


FIG. 2

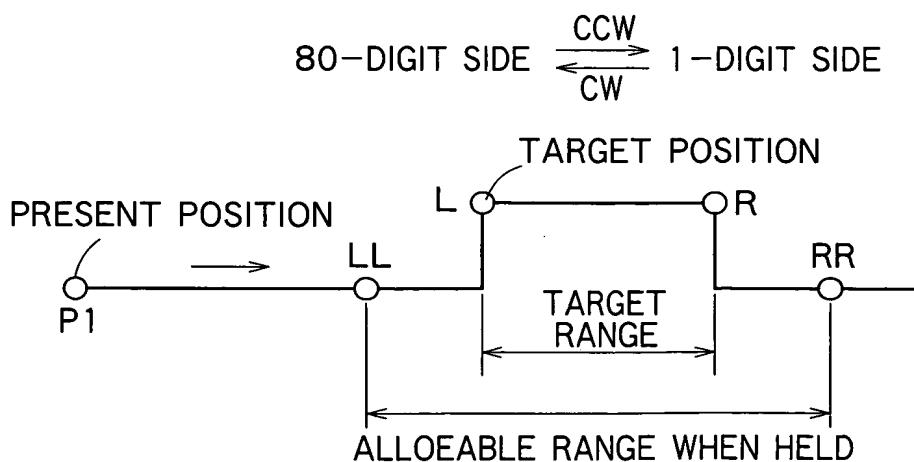


FIG. 3

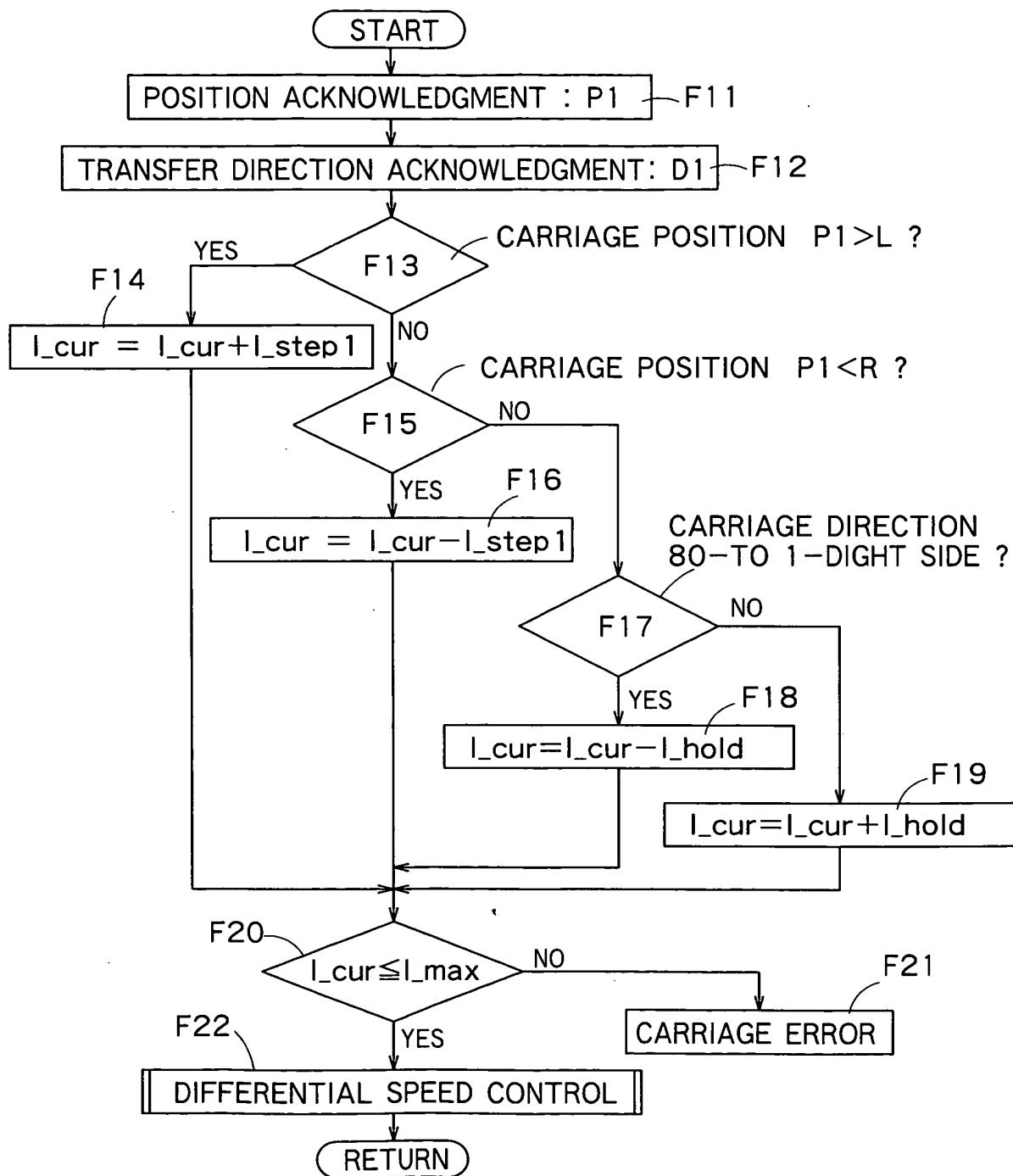


FIG. 4

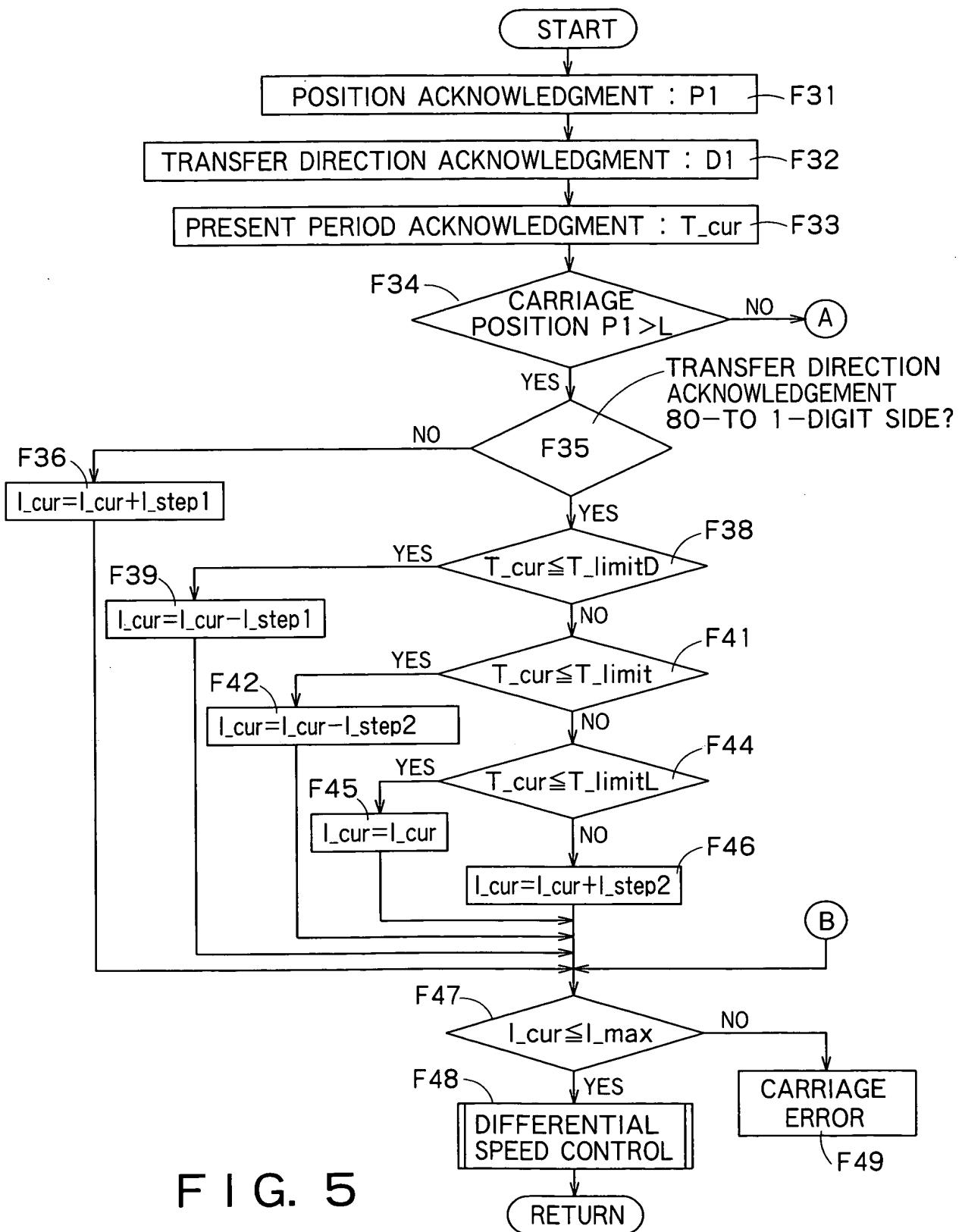
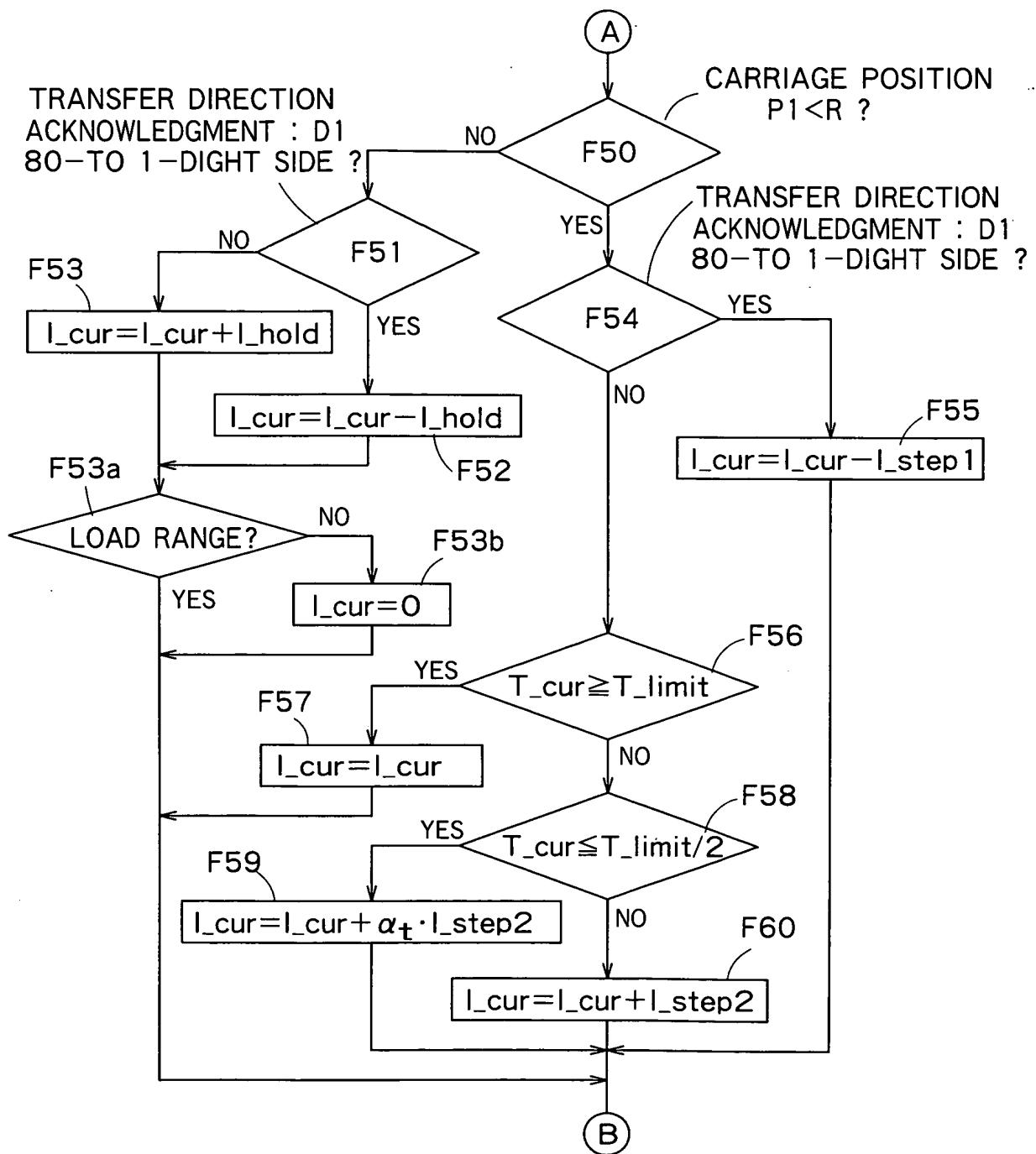


FIG. 5



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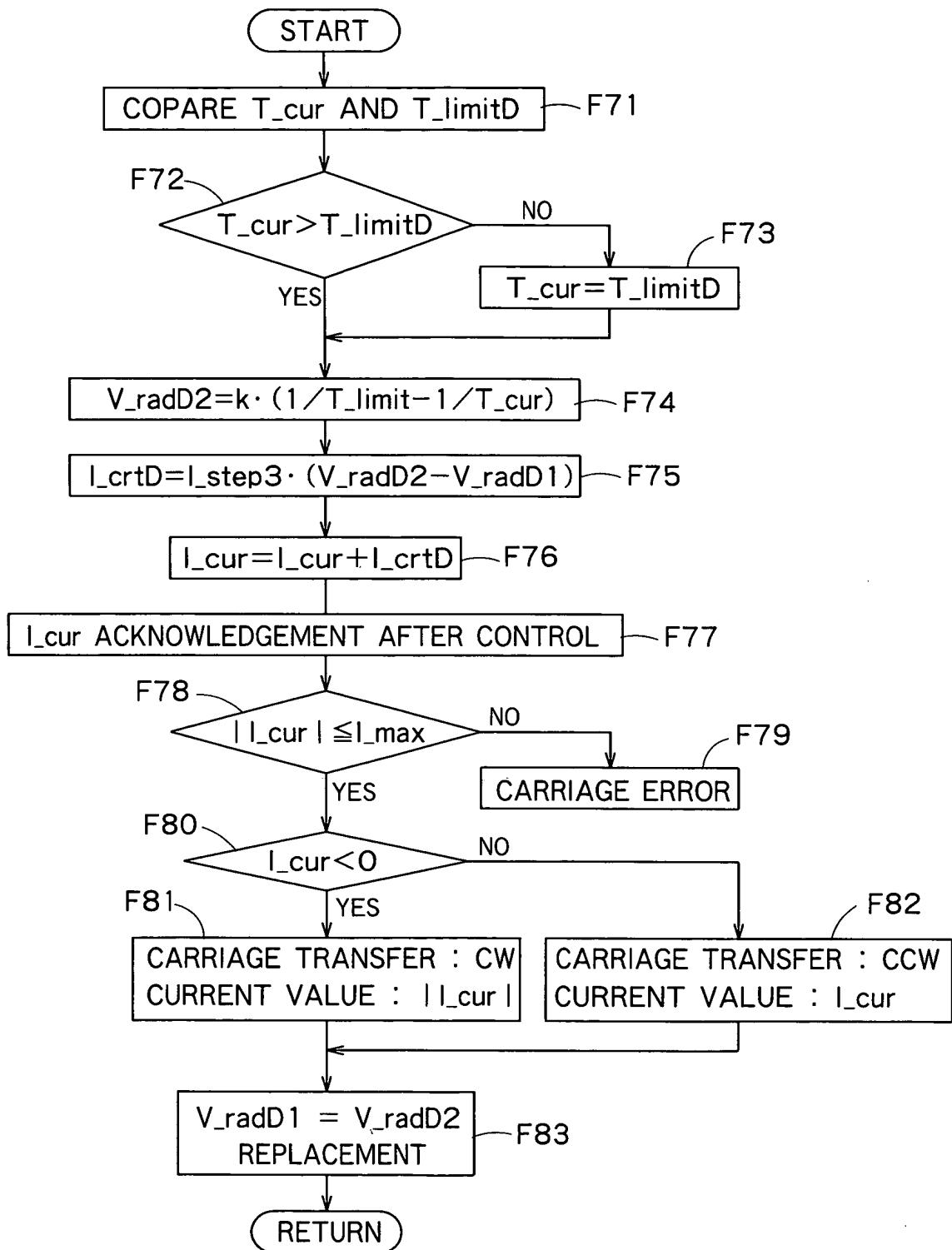


FIG. 7

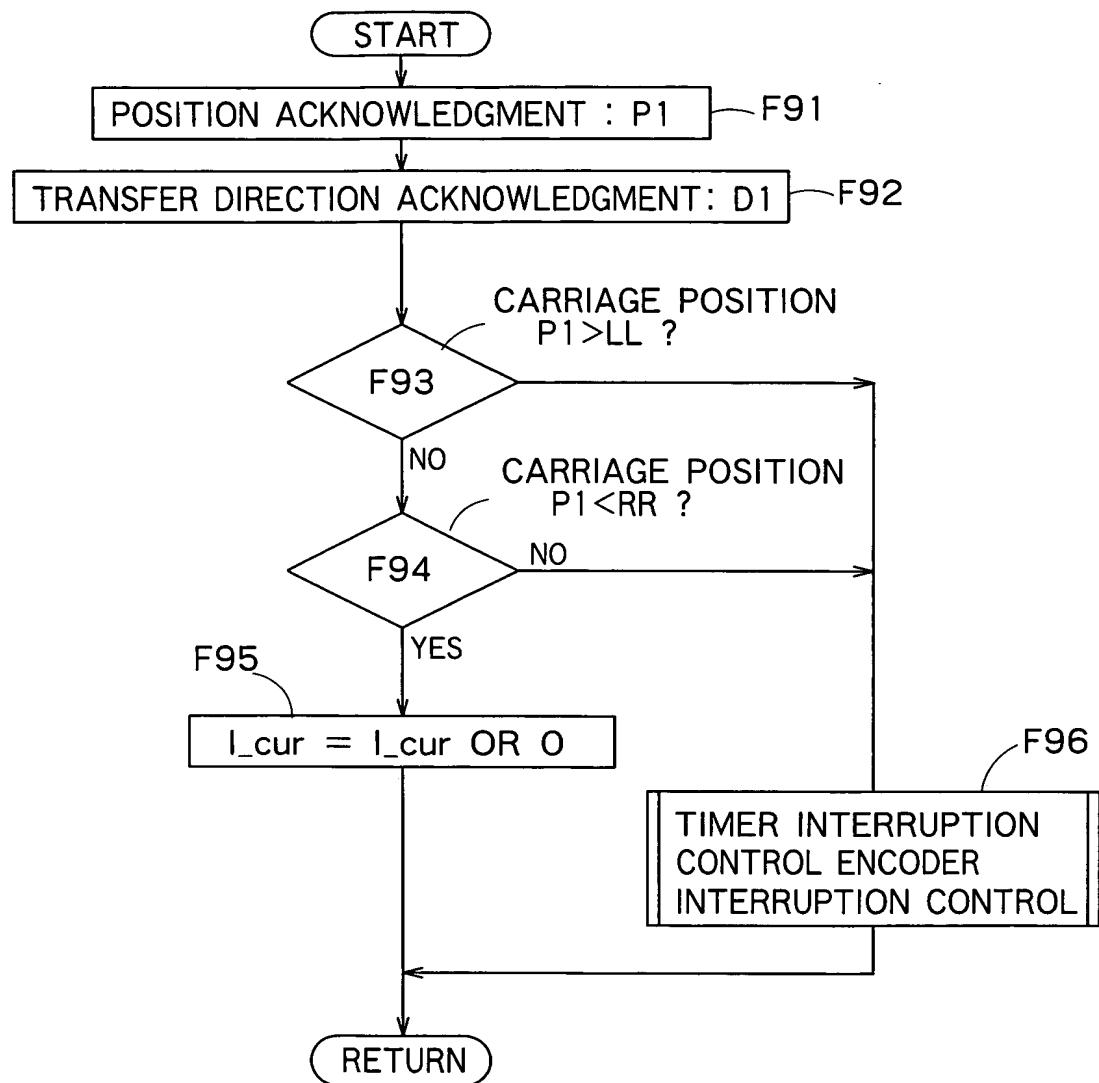


FIG. 8

SPEED	TARGET SPEED [cps]	OPERATION	TIMER [μs]	T_limitL [μs]	T_limit [μs]	T_limitD [mA]	I_step1 [mA]	I_step2 [mA]	I_step3 [mA]	I_hold [mA]	I_start [mA]	I_max [mA]
CREEP- ING	a v 1	LOGICAL SEEK	b τ_{m1}	b τ_{L1}	b τ_1	b τ_{TD1}	c 11	c 21	c 31	c f1	c s1	c m1
NORMAL	a v 2	RUBBING	b τ_{m2}	b τ_{L2}	b τ_2	b τ_{TD2}	c 12	c 22	c 32	c f2	c s2	c m2
HIGH	a v 3	WIPING	b τ_{m3}	b τ_{L3}	b τ_3	b τ_{TD3}	c 13	c 23	c 33	c f3	c s3	c m3

FIG. 9

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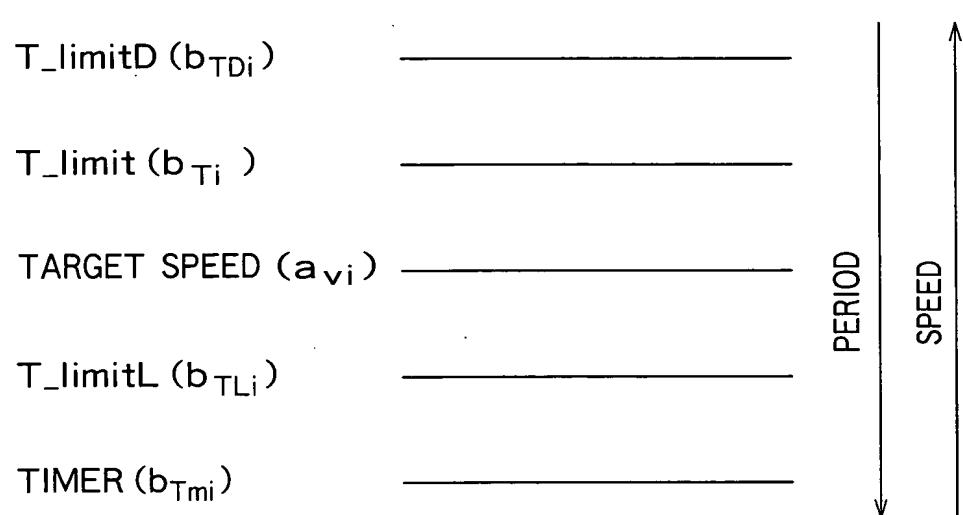
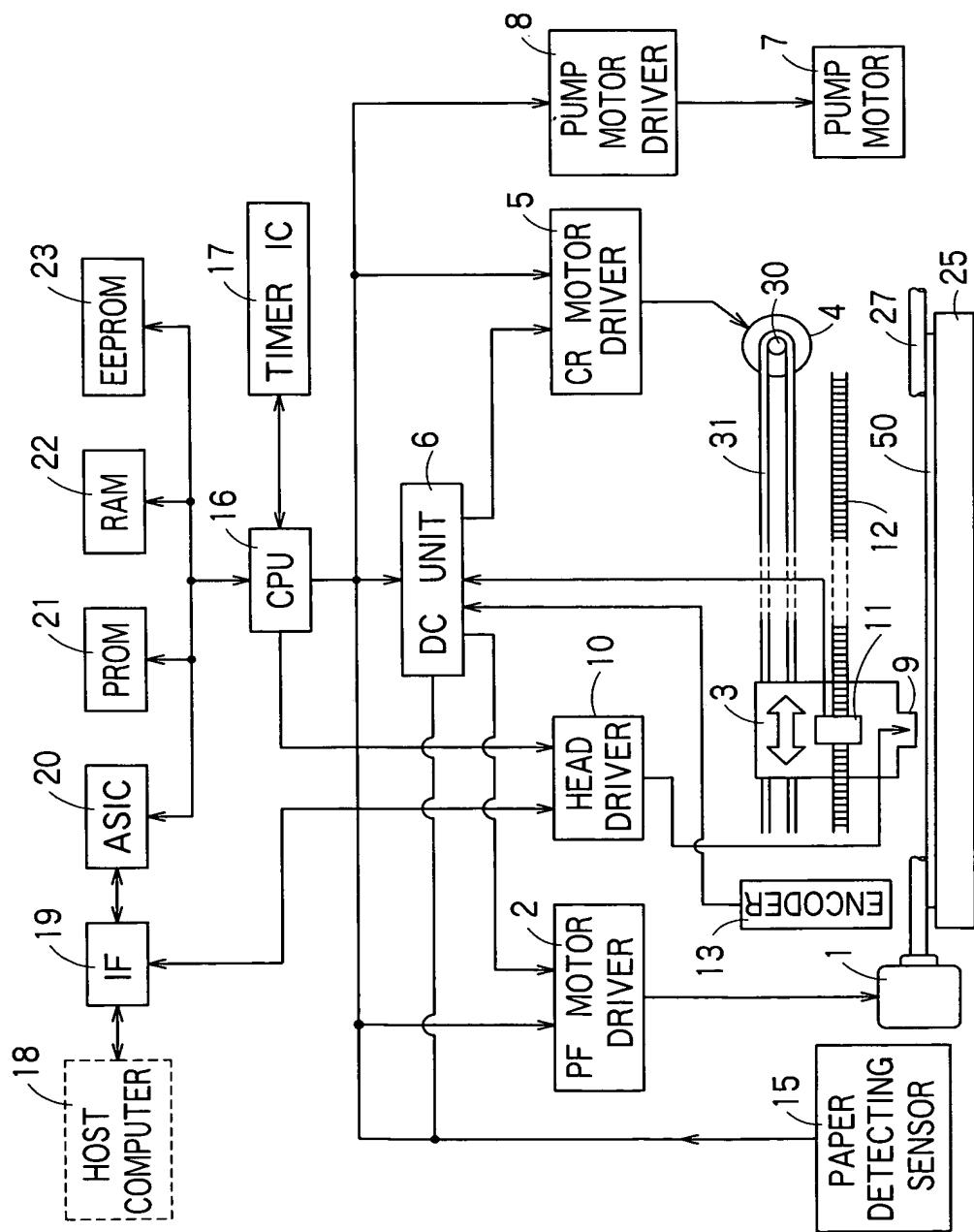


FIG. 10



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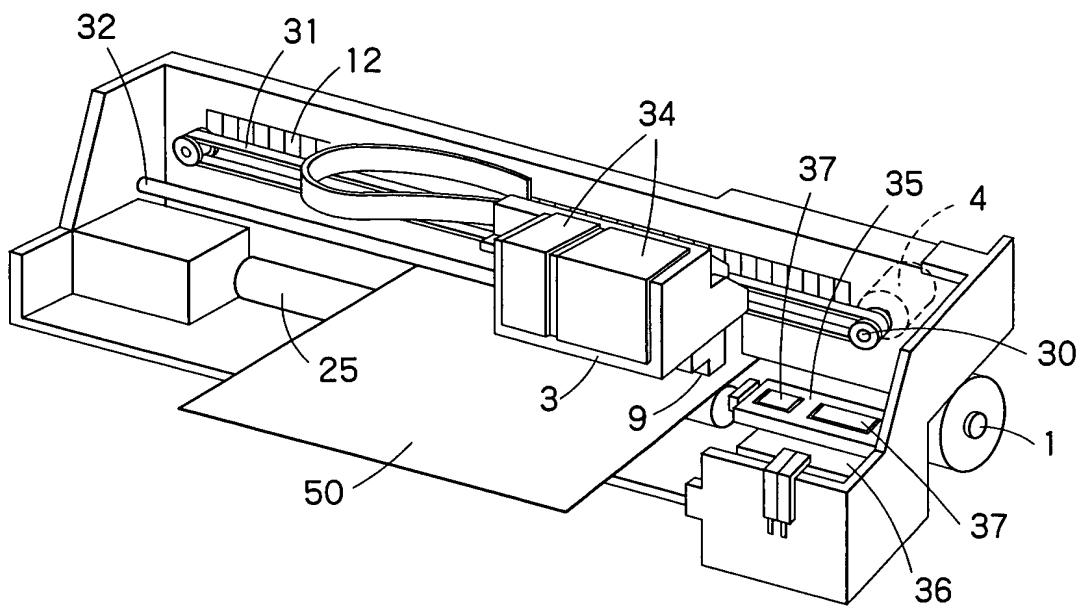


FIG. 12

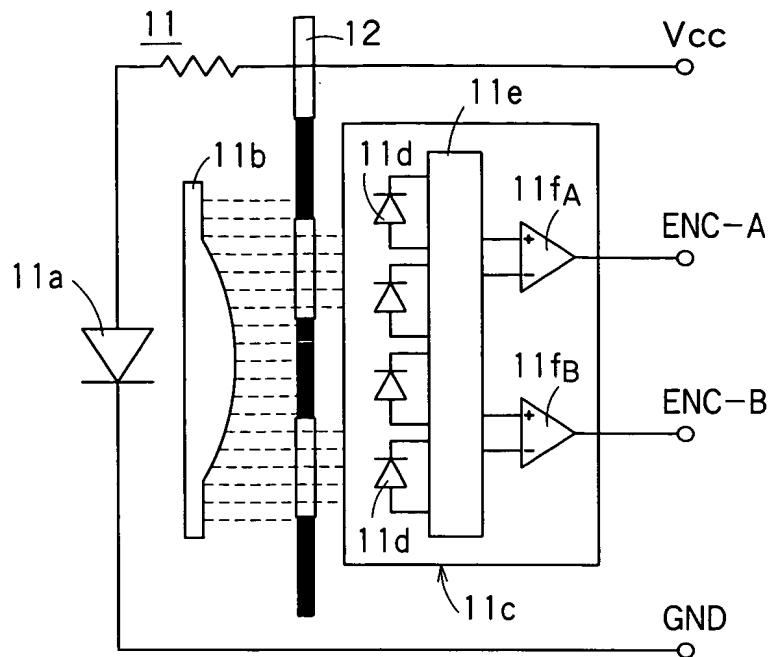


FIG. 13

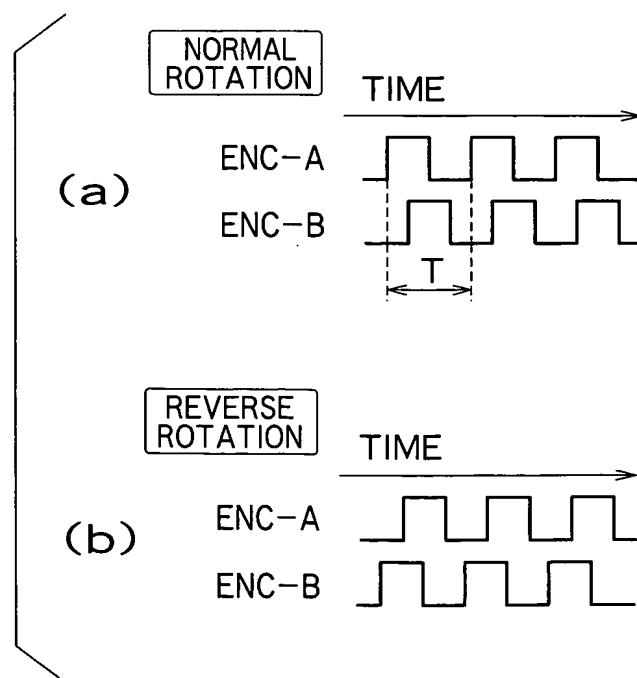


FIG. 14

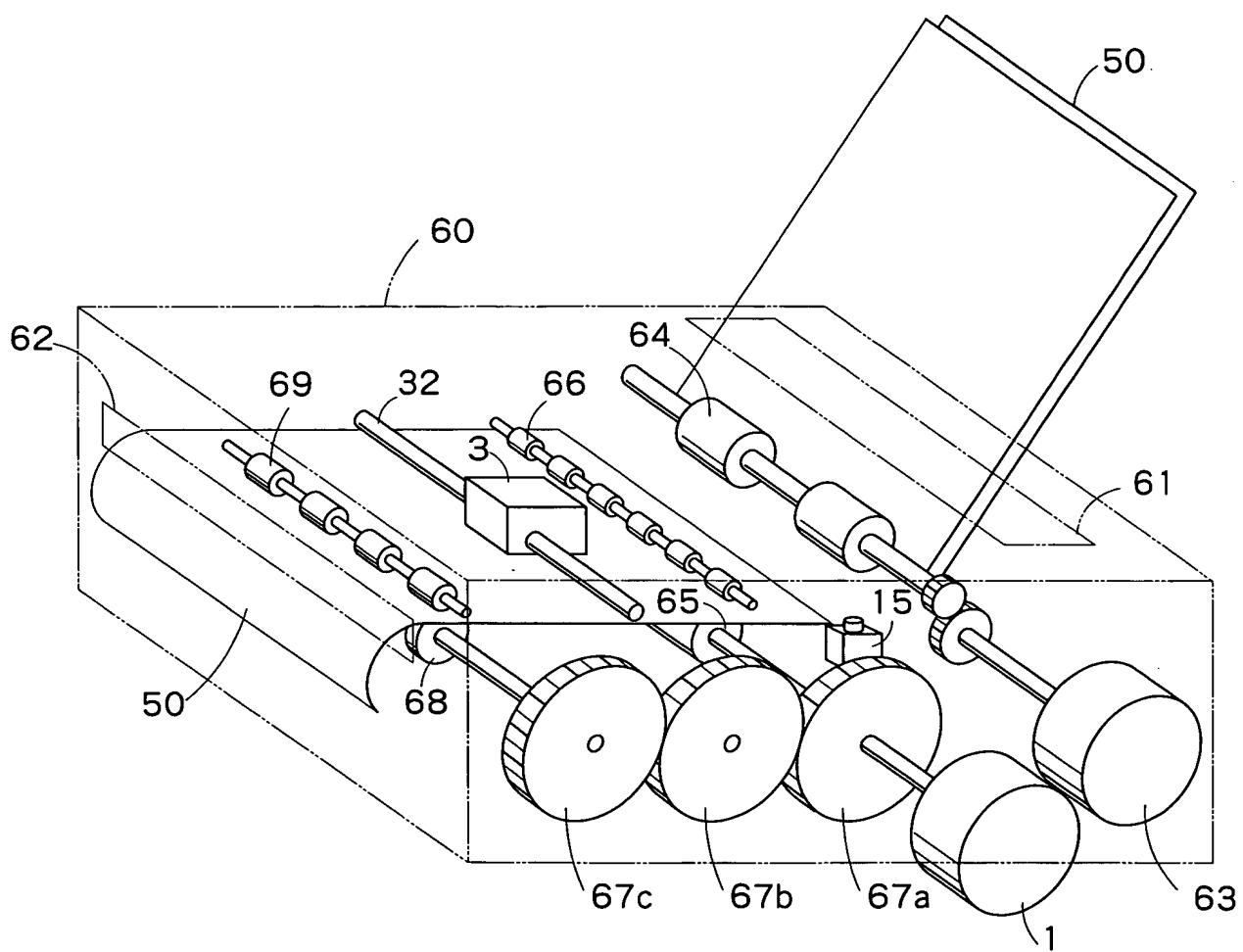


FIG. 15

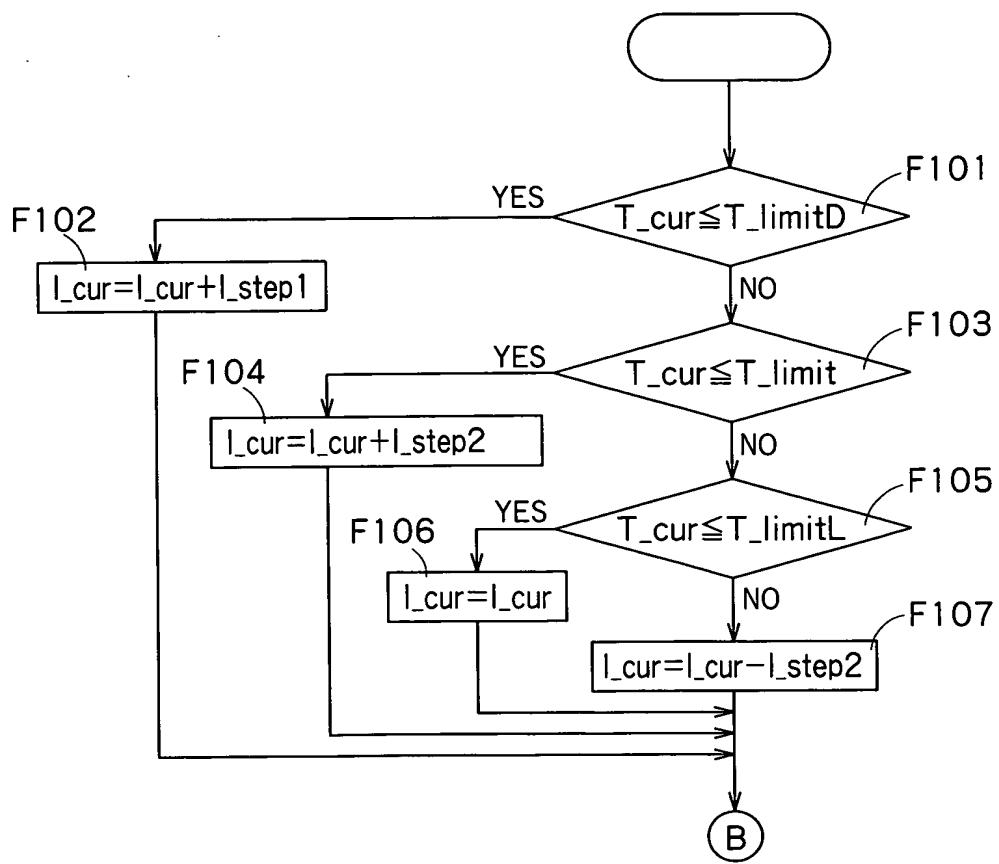


FIG. 16

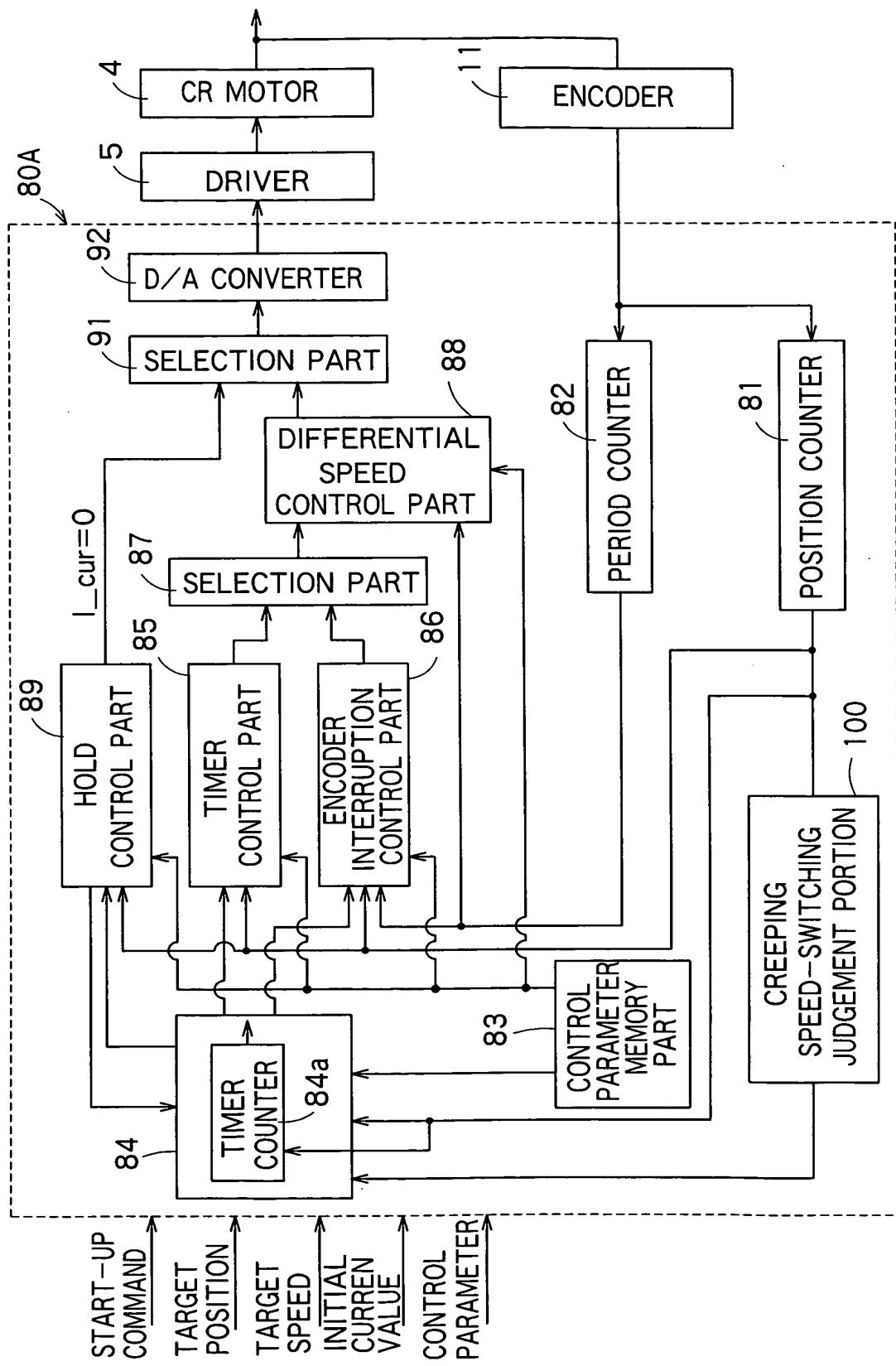


FIG. 17

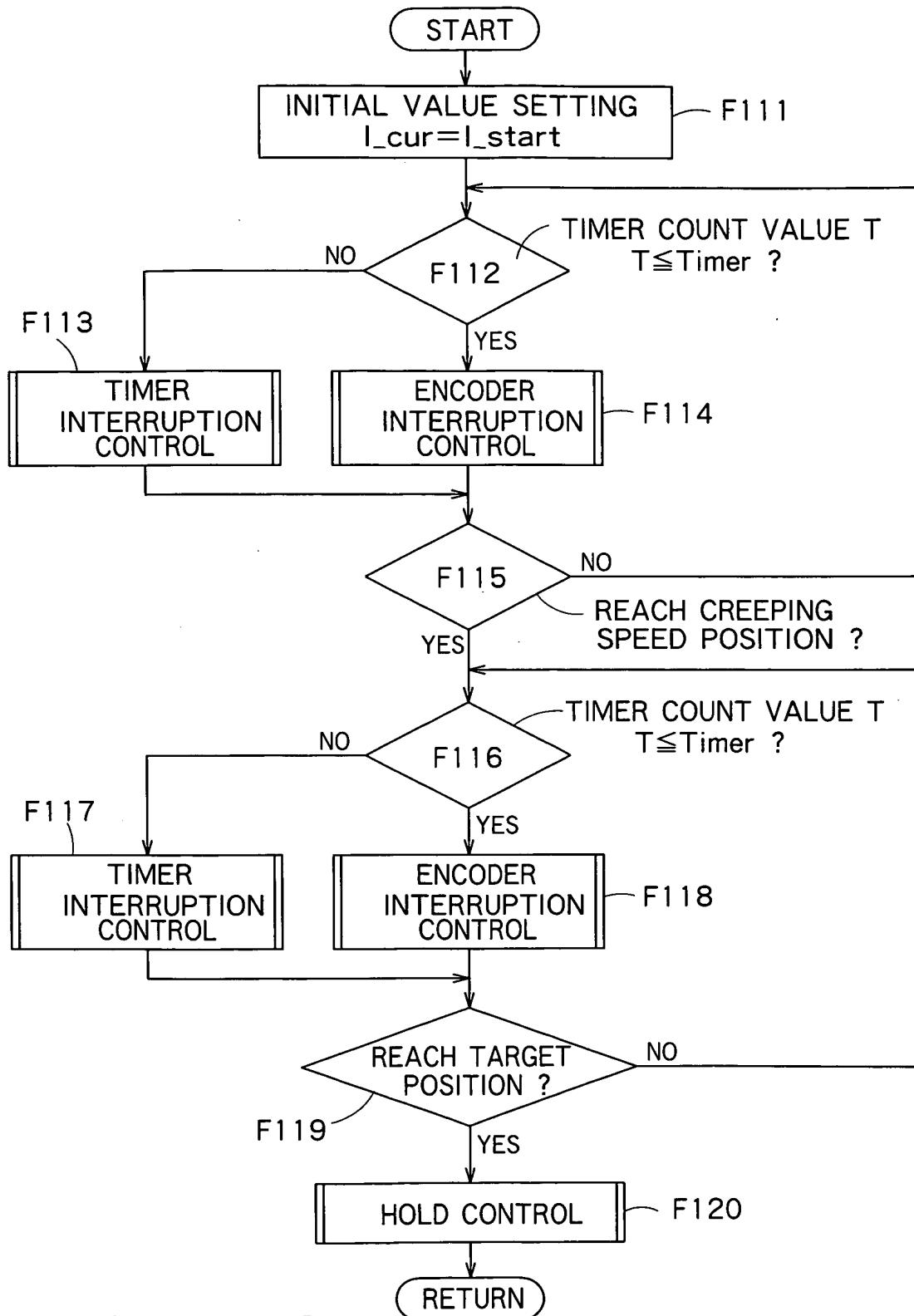


FIG. 18

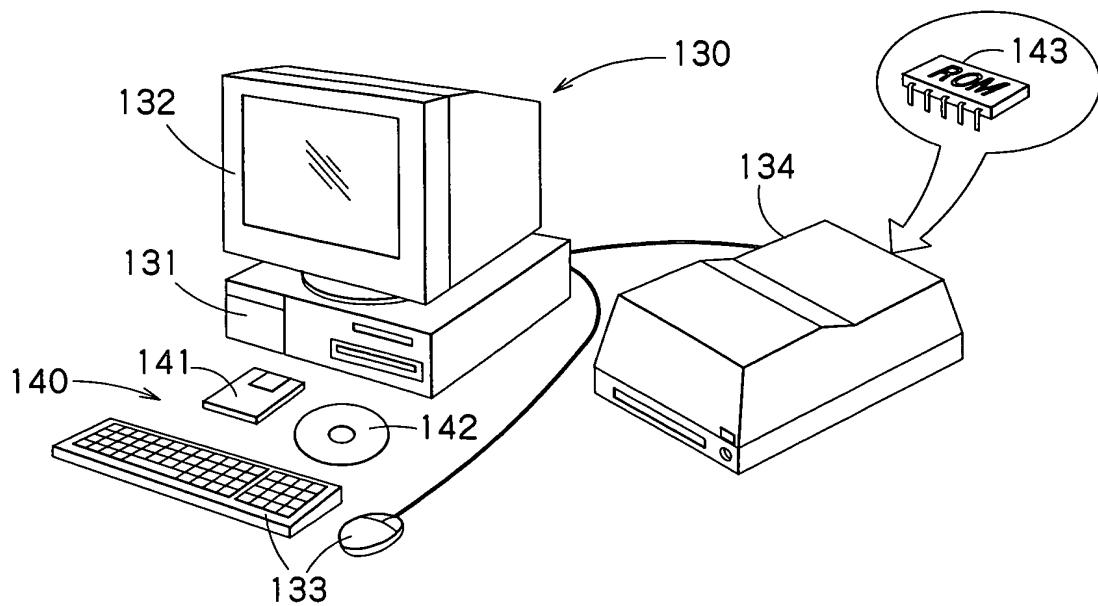


FIG. 19

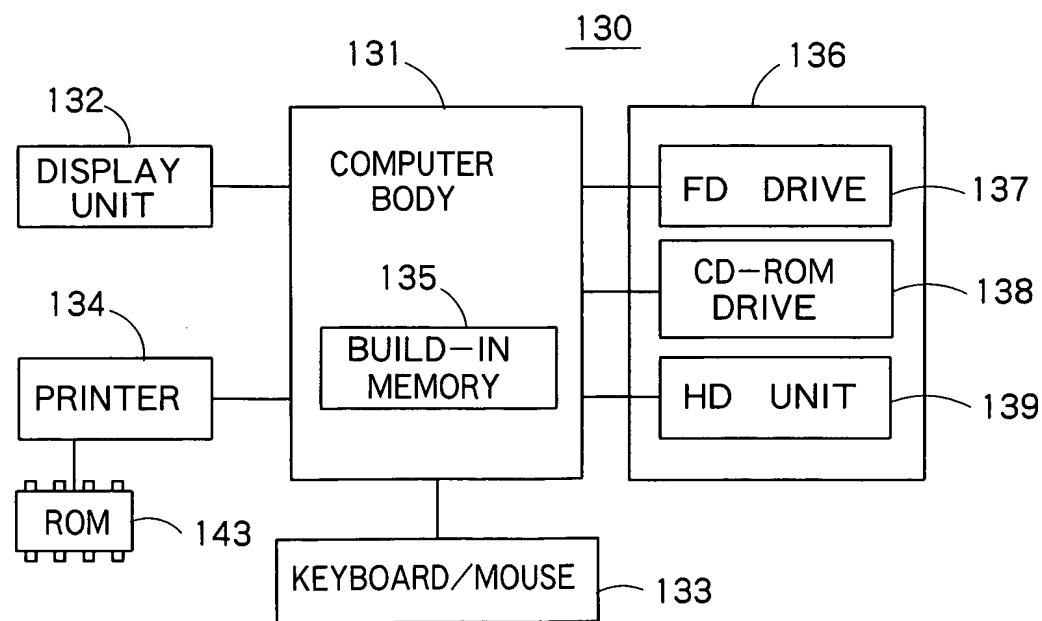


FIG. 20

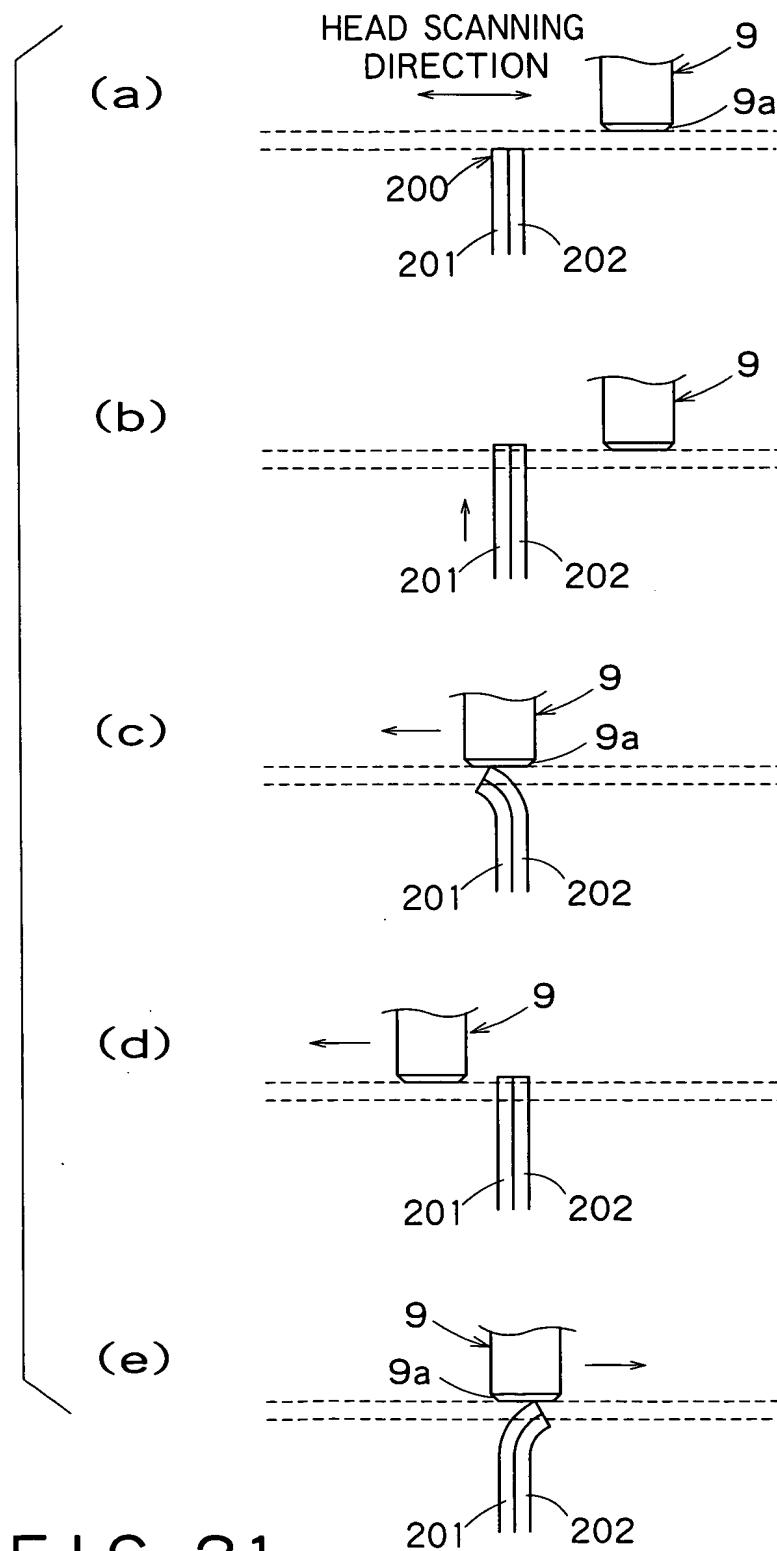


FIG. 21